

86-1019-15562

MineQuest Report #148
Ref. No. RM2906

12/87

SCRUTOR GOLD #2 CLAIM

Geochemistry and Preliminary Geology

~~Alberni~~ Alberni Mining Division

N.T.S. 92 L/3E

Latitude 50° ~~55'N~~ 09'
Longitude 127° ~~21'W~~ 02'

by

A.W. Gourlay

of

Operator: MineQuest Exploration Associates Ltd.

Owner: R.J. Bilquist

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,562

March, 1987

FILMED

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1.0

INTRODUCTION

The SCRUTOR GOLD claims cover a gold showing first worked in the 1940's and rediscovered by Messrs. R. Bilquist and L. Allen in 1984.

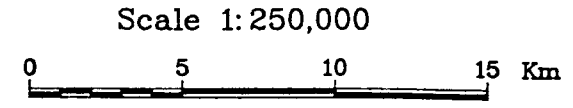
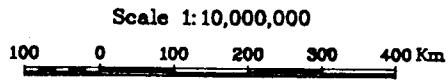
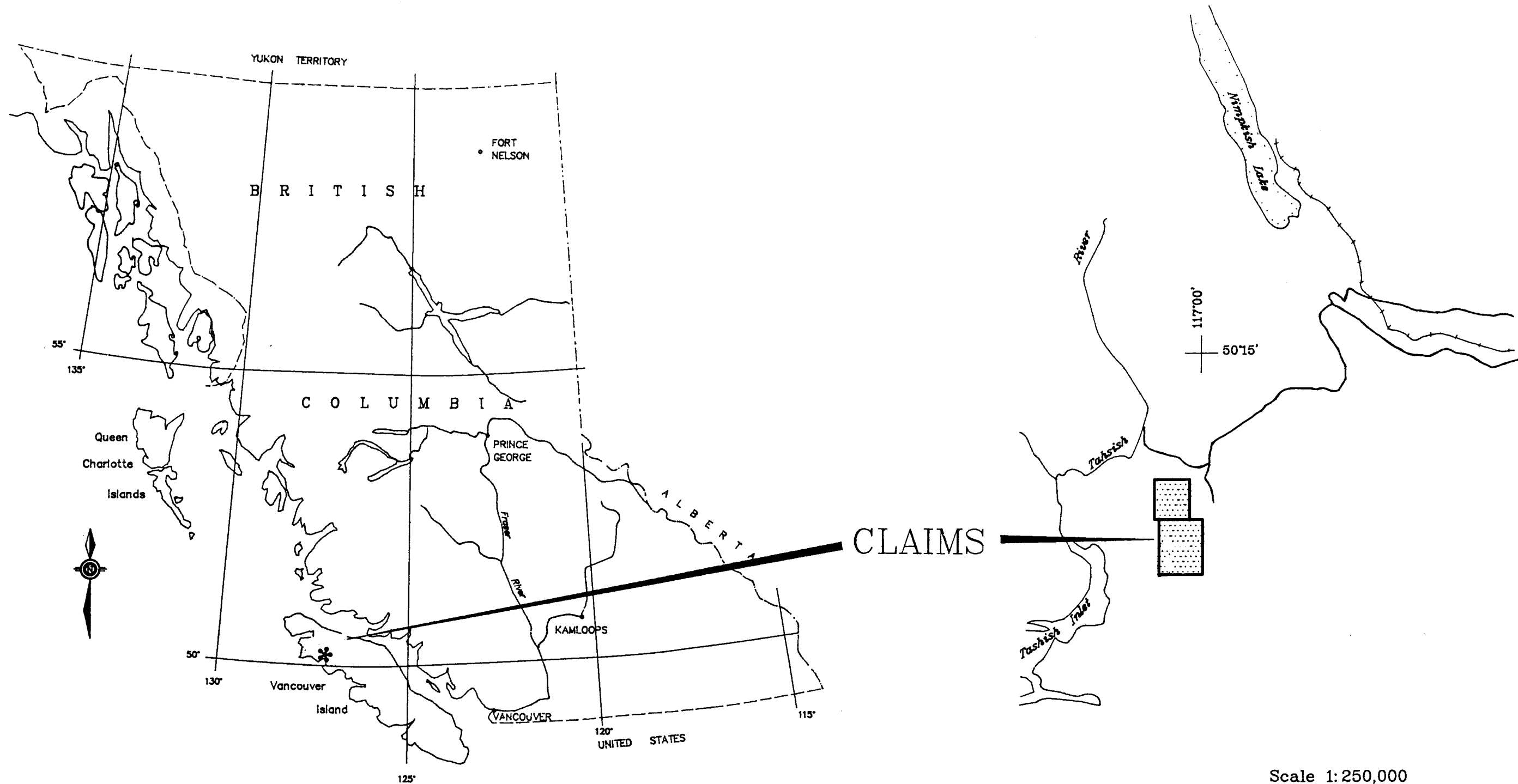
The property, which is prospective for both gold and base metals, is at an early stage of exploration. This report covers silt sampling and preliminary geological mapping of the Scrutor Gold #2 claim in 1986.

2.0

LOCATION, TOPOGRAPHY AND ACCESS

The claims lie in northern Vancouver Island, five kilometres east of the north end of Tahsish Inlet. Access is by logging road which leaves the Island Highway south of Nimpkish Lake. While logging roads traverse the northern claims (Scrutor Gold #3), access to the main (Discovery) showing requires an hour's walk from the end of the logging road.

In the event of a mining operation, access could be either from the north via the existing logging roads or by roads which have yet to be developed along the Artlish River.



SCRUTOR GOLD CLAIMS			
LOCATION MAP			
PLAN No.	DRAWN BY: GEO-COMP	DATE Apr. '86	FIGURE 1
Originator: RL		N.T.S. 92L 3	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

3.0

OWNERSHIP AND CLAIM STATUS

The property (Figure 2) consists of the three claims listed below:

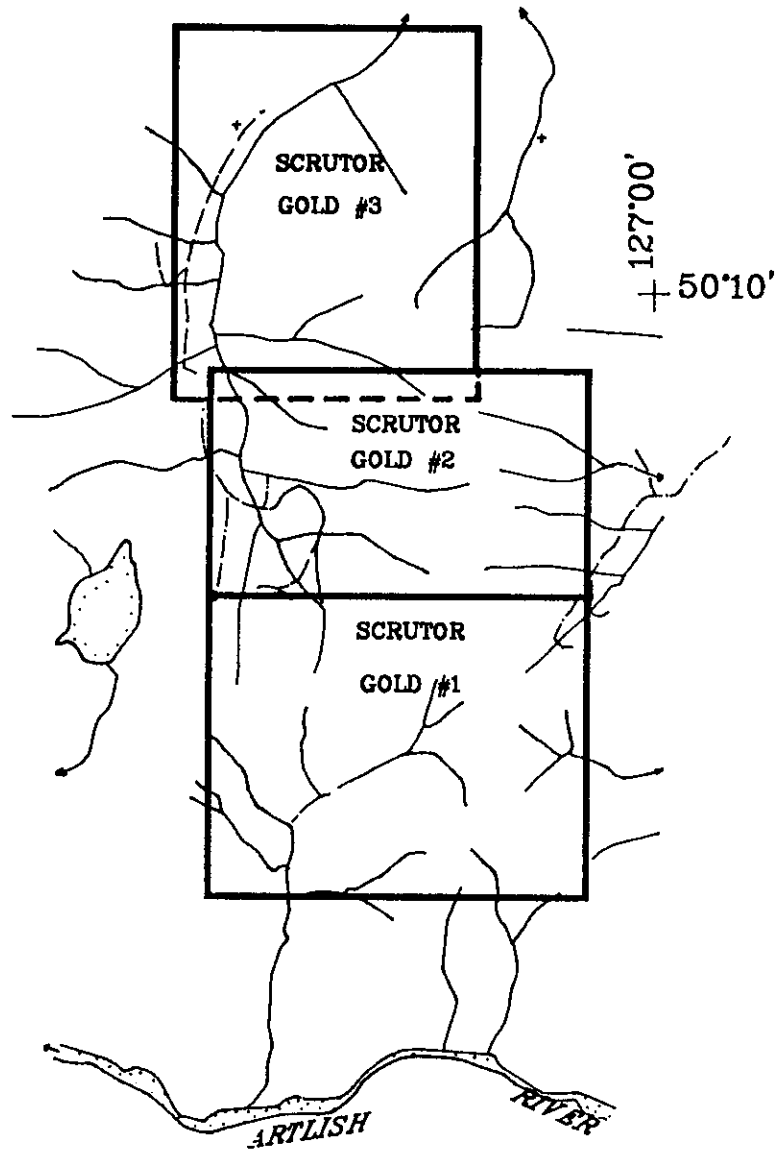
<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Recording Date</u>	<u>Year of Expiry</u>	<u>Registered Owner</u>
Scrutor Gold #1	2456	20	14 Dec 84	1987	R. Bilquist
Scrutor Gold #2	2457	15	14 Dec 84	1986	R. Bilquist
Scrutor Gold #3	2685	20	4 Sep 85	1987	R. Bilquist

4.0

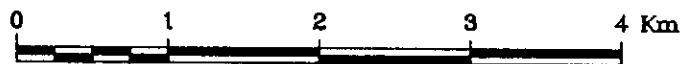
HISTORY AND PREVIOUS WORK

The mineral showing, now covered by Scrutor #1 mineral claim, is referred to in the MINFILE as No. 92L100, "Scrutor Gold". Only one period of work is mentioned - 1946. This information is compatible with observations in 1985 of tunnelling on some sulphide veins and signs of a camp which did not appear to have been disturbed for several decades.

In 1985, Messrs. Allen and Bilquist spent 12 days prospecting and sampling the Scrutor Gold claims, with MineQuest personnel assisting for two days. This work produced encouragement from the Cadmium Zone on Scrutor Gold #3 claim and the Discovery Zone on Scrutor Gold #1 claim (Longe, 1985).



Scale 1:50,000



SCRUTOR GOLD CLAIMS

CLAIM LOCATIONS

DATE: Aug '85 | N.T.S.: 92L 3 | FIGURE: 2

MINEQUEST EXPLORATION ASSOCIATES LTD.

5.0

REGIONAL GEOLOGY

Muller (1977) shows an area northeast of Tashish Inlet to be underlain by rocks of the Lower Jurassic Bonanza Group which typically consists of volcanic rocks of basaltic to rhyolitic composition with related sediments.

A Jurassic intrusive is shown to the southeast of the claims.

No trends within the Bonanza Group are evident from Muller's map although underlying sediments of the Quatzino-Parson Bay Formation trend northwest-southeast. The Bonanza rocks in the vicinity of the claims form a partially fault-bounded panel (like much of Vancouver Island). No regional linear features are shown coming close to the claims.

6.0

WORK CARRIED OUT IN 1986

Field work took place on December 11, 12, and 13, 1986. Work concentrated on Scrutor Gold #2 claim, where silt samples were collected at 50 metre intervals along Helen Creek, and geological mapping was carried out over the eastern portion of the claim. Silt sampling was performed by A.R. Zuk and geological mapping was carried out by A.W. Gourlay.

Sixty-nine silt samples were collected and analyses were performed on every second sample.

7.0

RESULTS OF THE 1986 PROGRAM

7.1

Property Geology

The upper reaches of Helen Creek, covering the eastern portion of the claim, were mapped at a scale of 1:10,000. The preliminary geology map is presented in Figure 3.

Map Unit 1: A grey weathering intermediate volcanic rock is found in the creek bottom across the south-central portion of the mapped area. The rock is grey on a fresh surface, massive, with up to 40% indistinct white phenocrysts, probably relict feldspar, in an aphanitic groundmass. Pyrite is extremely rare. This unit contains interbeds of well banded or laminated 'cherty' material up to two metres thick. Banding varies from mm to 10cm scale; the finely laminated beds display well preserved soft sediment deformation features.

Map Unit 2a: Massive andesite appears to overlie Map Unit 1. The andesite, characterized by green colour on both fresh and weathered surfaces, varies from very fine to medium grained. Chlorite has replaced mafic minerals and calcite veins are common. The andesite is interbedded with feldspar and hornblende-feldspar porphyritic andesite.

Map Unit 2b: Outcrop of feldspar porphyritic crystal tuff is restricted to the eastern portion of the mapped area. This unit has a distinct red-brown

colour on fresh and weathered surfaces. An aphanitic groundmass supports 40% subhedral to euhedral pink or iron stained feldspar phenocrysts, 1 to 3mm size. The tuff is crosscut by numerous (< 1%) hairline quartz veinlets that rarely exceed 3mm thickness. Veinlets are randomly oriented, and the thicker veins are banded. No sulphides were observed.

The crustal tuff also contains a bed of bomb-shaped vesicular basalt clasts in a very fine-grained matrix. Basalt clast range in size from 3 to 30cm.

Map Unit 2c: Five rhyolite lenses, ranging from 2 to 10 metres thick, are interbedded with Map Unit 2a. The rhyolite is white to tan weathering, white on a fresh surface. Individual lenses vary from massive to well banded, with banding occurring more often near the upper contact. Quartz forms less than 5% phenocrysts, 1-2mm in size. There is less than 5% of fine blades of unidentified mafic minerals. Pyrite is rare.

Map Unit 3: Argillaceous sediments are found south of Scrutor Gold #2 claim. The sediments weather rusty-brown and on a fresh surface are black, aphanitic, and break with a conchoidal, hackly fracture.

7.2 Silt Sampling

The uniform values returned from the silt samples appear to reflect the difficulty in obtaining an adequate silt sized fraction. There are no distinct anomalies in any of the 30 elements analysed for. There are some general trends, however, from the central tributary that drains across a thick rhyolite lense. Here there is a slight depletion of chromium and nickel, and weak enhancement of arsenic and copper.

8.0

GENERAL CONCLUSIONS

Scrutor Gold #2 claim covers a sequence of intermediate volcanic rocks, massive andesite, feldspar porphyritic crystal tuff, rhyolite, and argillaceous sedimentary rocks. Silt geochemistry has returned weak enhancement of arsenic and copper and depletion chromium and nickel in the vicinity of rhyolite outcrop.

9.0

RECOMMENDATIONS

Geological mapping should be extended to the north and south to include both the Cadmium and the Discovery Zones. The recommendations outlined by Longe (1985) should be carried out:

" Discovery Zone: Intensive prospecting, hand trenching and sampling is required, especially in the vicinity of samples 30, 63, 106, 75 and 108 where the majority of samples collected to date have returned promising gold values.

The Discovery Zone should be mapped at 1:1,000 scale to determining the controls to mineralization."

"Cadmium Zone: Work on the Cadmium Zone should consist of prospecting, rock sampling, detailed silt sampling and reconnaissance soil sampling. For the immediate next stage the property scale geological mapping at 1:10,000 scale will be sufficient".

10.0

REFERENCES

- Anon., 1947
B.C. Minister of Mines Annual Report, pl78
- Minfile, 1985
92L100
- Muller, J.E., 1977
Geology of Vancouver Island
G.S.C. Open File 463
- Longe, R.V., 1986
Scrutor Gold Claims
MineQuest Exploration Associates Ltd.,
MineQuest Report #113, (submitted for
Assessment)

APPENDIX I

Analytical Techniques

APPENDIX I

Analytical Techniques

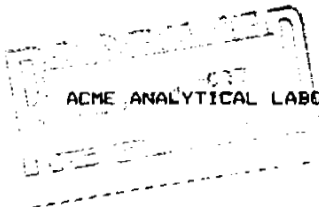
Every second silt sample was forwarded to Acme Analytical Labs, in Vancouver, for preparation and analysis.

The silt samples were dried and sieved to -80 mesh.

The prepared silt samples were then subjected to a 30-element ICP (inductively coupled plasma) analytical technique, after digestion for one hour at 95°C in 3:1:2-HCl:HNO₃:H₂O. In addition, gold contents were determined by fire assay extraction followed by atomic absorption analysis. It is important to note that the ICP technique is partial only for several of the elements reported.

APPENDIX II

Laboratory Reports



ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

Top of file 3K
cc: Ross Spurlay
Re: AWE

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, Ni, Ba, Ti, B, AL, Na, K, W, SI, ZR, CE, SM, Y, ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SILTS - BOMESH AURA ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JAN 30 1987 DATE REPORT MAILED: Feb 5/87 ASSAYER: B. Toyne, DEAN TOYE, CERTIFIED B.C. ASSAYER.

MINEQUEST EXPLORATION PROJECT - SCRUTOR FILE # 87-0195

PAGE 1

Table with columns: SAMPLE#, Mo, Cu, Pb, Zn, As, Ni, Co, Mn, Fe, Sr, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mo, Ba, Ti, B, Al, Na, K, W, Au#1, Au#2. Rows include samples SCR-101 through SCR-167 and STD C/AU-5.

APPENDIX III

Cost Statement

Scrutor Gold #2 - Cost Statement

FEES, SALARIES AND WAGES:

A.W. Gourlay 5 days at \$385.00	\$ 1,925.00	
A.R. Zuk 4 days at \$125.00	<u>500.00</u>	\$2,425.00

DISBURSEMENTS:

Airfare	157.30	
Rental (vehicle)	250.00	
Vehicle repairs & maintenance	4.30	
Fuels and lubricants	60.31	
Parking, fares	62.75	
Food & accommodation	119.49	
Groceries	92.13	
General supplies	89.08	
Telephone	29.20	
Courier, postage	31.95	
Drafting (estimate)	250.00	
Reprographics	23.44	
Xerox - in house	90.15	
Maps and publications	8.56	
MQ report preparation	<u>177.00</u>	
	<u>1,445.66</u>	
Plus Over-ride at 10%	<u>144.57</u>	1,590.23
		<u>\$4,015.23</u>

APPENDIX IV

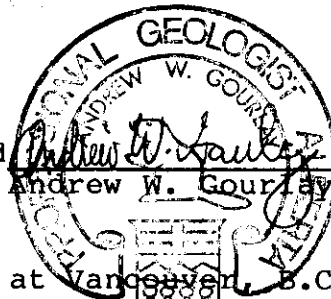
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Andrew W. Gourlay, hereby certify that:

1. I am presently employed by MineQuest Exploration Associates Ltd. as Senior Geologist
2. I am a graduate of the University of British Columbia (B.Sc. Hons., 1977, in geology).
3. I am a Professional Geologist in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a Fellow of the Geological Association of Canada.
4. I have practised my profession as geologist for 9 years.
5. The information used in this report is based on notes, maps, and data on file at MineQuest Exploration Associates Ltd. and personal execution of the preliminary geological mapping.

Signed



Dated at Vancouver, B.C.
this 2nd day of March, 1987

APPENDIX V

Statement of Exploration and Development

C. DRILLING (Details in report submitted as per section 8 of regulations.) (The itemized cost statement must be part of the report.)		COST
D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL (Details in report submitted as per section 5, 6, or 7 of regulations.) (The itemized cost statement must be part of the report.) (State type of work in space below.)		
Geological mapping, rock chip sampling, soil sampling, silt sampling		1,150
TOTAL OF C AND D		1,150

Where the above statement requires a technical report as per section C of the Mineral Act Regulations, the author of the report shall complete both copies of the ASSESSMENT REPORT TITLE PAGE AND SUMMARY form and include the completed forms in the assessment reports.

Who was the operator (provided the financing)? Name MineQuest Exploration Associates Ltd.
Address 201-311 Water Street
Vancouver, B.C., V6B 1B8

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) or operator(s) account(s):		
Name of Owner/Operator		
[May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.]	1. <u>MineQuest Exploration Associates Ltd.</u>	350
	2.	
	3.	
TOTAL WITHDRAWAL		350
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		1,500

I wish to apply \$ 1,500 of this work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

CLAIM	RECORD NO.	UNITS	MONTH DUE	APPLY	YEARS EARNED
<u>Scrutor</u>					
<u>Gold #2</u>	<u>2457</u>	<u>15</u>	<u>December</u>	<u>1,500</u>	<u>1</u>

Value of work to be credited to portable assessment credit (PAC) account(s).
(May only be credited from the approved value of C and (or) D) not applied to claims.)

Name	AMOUNT
1.	
2.	
3.	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

A.W. Bulger
Signature of Applicant

LEGEND

- Claim boundary
- Legal Corner Post
- Logging road
- Trail
- Unit 3 Argillaceous Sediments
- Unit 2c Rhyolite
- Unit 2b Feldspar Porphyritic Crystal Tuff
- Unit 2a Massive Andesite
- Unit 1 Intermediate tuffs
- Road
- Outcrop
- Bedding/Bonding; strike, dip
- Fracture; strike, dip



5560000m.N.

640000m.E.

642000m.E.

127'00"

50'10"

Cadmium Zone

Helen Creek

SCRUTOR GOLD #3

SCRUTOR GOLD #2

SCRUTOR GOLD #1

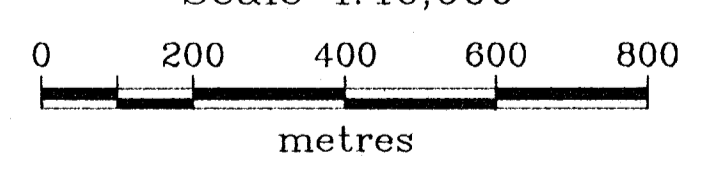
Discovery Zone

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,562

50'08"

Scale 1:10,000



5584000m.N.

Young Creek

SCRUTOR GOLD CLAIMS					
PRELIMINARY GEOLOGY					
	Originator	Drawn	Date	PLAN No.	FIGURE
Original	AWG	Geo-Comp	Feb. '87	993	3
Revision				N.T.S.	
Revision				92L 3	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



556000m.N.

64000m.E

64200m.E

LEGEND

- Claim boundary
- Legal Corner Post
- Logging road
- Trail

Cadmium Zone

Helen Creek

SCRUTOR GOLD #3

SCR 165
SCR 164
SCR 163
SCR 162
SCR 161

SCR 150

SCR 145

Camp Zone

SCR 140
SCR 135
SCR 101
SCR 111
SCR 105
SCR 110

SCRUTOR GOLD #2

SCR 125
SCR 120
SCR 117
SCR 128
SCR 129
SCR 130
SCR 131

SCRUTOR GOLD #1

Discovery Zone

127'00"

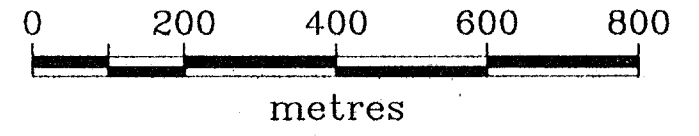
50'10"

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,562

50'08"

Scale 1:10,000



Note: Every second sample analysed.
Results are tabulated in Appendix II

555400m.N.

SCRUTOR GOLD CLAIMS

GEOCHEMISTRY
SILT SAMPLE LOCATIONS

	Originator	Drawn	Date	PLAN No.	FIGURE
Original	AWG	Geo-Comp	Feb. '87	994	4
Revision				N.T.S.	
Revision				92L 3	

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